

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 15, 2006, 23:01:41 ; Search time 193 Seconds

(without alignments)

93.340 Million cell updates/sec

Title: US-10-737-288-1

Perfect score: 243

Sequence: 1 GIGDPVTCLKSGATCHPVFC.....RRYQIGTCGLPGTKCCKKP 41

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

;

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters:

2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0\$

Maximum Match 100\$

Listing first 45 summaries

Database : A_Geneseq_21:*

1: GeneseqP1900s:*

2: GeneseqP1900s:*

3: GeneseqP2000s:*

4: GeneseqP2001s:*

5: GeneseqP2002s:*

6: GeneseqP2003ab:*

7: GeneseqP2003bs:*

8: GeneseqP2004s:*

9: GeneseqP2005s:*

RESULT 1

AAB86265

ID AAB86265 standard; peptide; 41 AA.

XX

AC AAB86265;

XX

DT 05-SEP-2001 (first entry)

XX

DB Human beta-defensin peptide fragment hBD2.

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KW Beta-defensin; antibiotic; antibacterial; Helicobacter pylori infection; human; gastrointestinal tract infection; human.

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OS Homo sapiens.

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PN WO200138349-A2.

XX

PD 31-MAY-2001.

XX

PP 25-NOV-2000; 2000WO-EP011770.

XX

PR 26-NOV-1999; 99DB-01057043.

XX

(PORS/) FORSMANN W.

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PI Forssmann W., Adermann K., Kluever B., Conejo JR., Nehls M.; Wattler S;

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DR WPI; 2001-397871/42.

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PT New beta-defensin useful as an antibiotic.

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Disclosure; Fig 1a; 15pp; German.

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This invention describes a novel beta-defensin (I) comprising the formula C1-Arg-Cys-X-His-Lys-Ile-Gly-Thr-Cys-22 where, X = Phe or Arg, Z1 = a substituted or unsubstituted amino acid residue with at least one further Cys, Z2 = either a peptide residue of up to 20 amino acids, comprising at least two directly neighboring Cys or a carboxyl group or a derivative of a carboxyl group. The products of the invention have antibiotic, antibacterial and antifungal activity. (I) may be used as an antibiotic, especially against Streptococcus, *Bacillus*, *Pseudomonas*, *Escherichia*, *Staphylococcus*, and *Candida*. (I) is useful for treating a gastrointestinal tract infection caused by *Helicobacter pylori*. This sequence represents a human beta-defensin described in the method of the invention

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ALIGNMENTS

AAB6204 Bovine tr

AAB6206 Human tr

AAB6204 Bovine tr

AAB6203 Bovine tr

AAB6434 Cationic

AAY91733 Cationic

ABU59610 Cationic

ADD35356 Antimicro

Adv73995 Bovine tr

Ady67481 Tumor cel

AAU1052 Transplan

ADX8426 Beta-defe

Aar63522 Bovine ne

AAU91033 Transplan

ADX08410 Beta-defe

AAB6263 Murine be

ADR23112 Mouse def

Aar02127 Mouse bet

Aar63515 Bovine ne

Aar63512 Bovine ne

AAU91028 Transplan

AAB6205

AAU1052

AAU91052

AAU91052